

## ツリフネソウ属植物の実生の形態追記 (1)

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○ Tatemi SHIMIZU: Further Materials for Seedling Morphology of the Genus *Impatiens* (Balsaminaceae)(1) ツリフネソウ属植物の実生の形態追記(1) (清水建美)

The writer reported that the seedlings of the genus *Impatiens* (Balsaminaceae) are much diversified to be classified to two major groups and seven subgroups, mainly on the basis of the Thai plants (SHIMIZU, 1982, 1985). In this and the following occasional notes, some more materials will be given to taxonomy. Here the seedlings of four Indian plants are shown as follows. All of them are characterized by decussate leaves. And, *I. benthamii* belongs to Sect. Subverticillate sensu Hook. f., while the others are all included in Sect. Oppositifolia sensu Hook. f. Subgroup name should be referred to the writer's previous paper (SHIMIZU, 1985). The voucher specimens are preserved in KANA.

*Impatiens chinensis* L. (SHIMIZU, 1982, Fig. 1) Subgroup F. Cotyledons epigeal, but hypocotyls not elongated. Leaves with stipular glands. Voucher: Meghalaya: Nonshillong, East Khasi Hill, alt. 1,900m, T. SHIMIZU 39001.

*I. benthamii* v. STEENIS (Fig. 2) Subgroup F. Cotyledons epigeal, but hypocotyls not elongated. Leaves pubescent on both sides. The third and the upper internodes pubescent. Voucher: Meghalaya: Thadlangksien, Janita Hill, alt. 1,500m, T. SHIMIZU 39002.

*I. oppositifolia* L. (Fig. 3) Subgroup E. Cotyledons epigeal, hypocotyls elongated. Leaves glabrous, with stipular glands. Voucher: Western Ghats: Karnataka: Yowansett, Munnar, alt. 1,500-1,800m, T. SHIMIZU 39003.

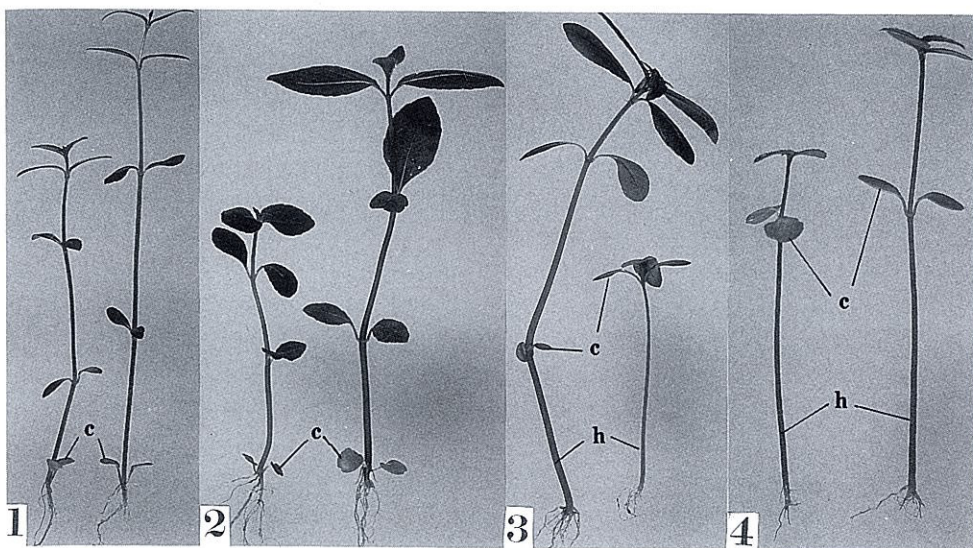
*I. kleinii* WIGHT et ARN. (Fig. 4) Subgroup E. Cotyledons epigeal, hypocotyls elongated. Leaves pubescent above, with stipular glands. Voucher: Western Ghats: Karnataka: Naduvattum, Munnar, alt. 1,600m, T. SHIMIZU 39004.

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Figs. 1-4: Seedlings of four *Impatiens* species. 1. *I. chinensis*  $\times 0.46$ , 2. *I. benthamii*  $\times 0.47$ , 3. *I. oppositifolia*  $\times 0.40$  and 4. *I. kleinii*  $\times 0.57$ . c: cotyledon, h: hypocotyl.